

### ABSTRACT

A process for primer coating fiber-reinforced plastics substrates by applying a primer layer onto a fiber-reinforced plastics substrate and curing the applied primer layer, wherein the primer layer is formed from a 5 coating composition which comprises a binder system with free-radically polymerizable olefinic double bonds and with hydrolyzable alkoxy silane groups, wherein the resin solids of the coating composition exhibit a C=C double bond equivalent weight of 200 to 2000 and a content of silicon bound in alkoxy silane groups of 1 to 10 wt-% and wherein curing of the 10 primer layer proceeds by free-radical polymerization of the C=C double bonds on irradiation with high energy radiation and by the formation of siloxane bridges under the action of moisture.